

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-14. (Cancelled)

15. (Currently amended) A method for screening for a bioactive agent ~~capable of binding to~~ that binds the a cell cycle protein R0101 (SEQ ID NO:2) comprising:

a) combining ~~said cell cycle~~ a protein R0101 and a candidate bioactive agent, wherein said protein comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said protein binds to proliferating cell nuclear antigen (PCNA); and

b) determining ~~the~~ binding of said candidate bioactive agent to said ~~cell cycle~~ protein R0101; ~~wherein said cell cycle protein R0101 comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said cell cycle protein R0101 binds to proliferating cell nuclear antigen (PCNA), wherein~~ binding of the candidate bioactive agent to said protein indicates that the candidate bioactive agent binds to said cell cycle protein R0101.

16. (Currently amended) A The method according to Claim 15, wherein said cell cycle protein R0101 comprises the amino acid sequence set forth in SEQ ID NO:2.

17. (Currently amended) A The method according to Claim 15, wherein said candidate bioactive agent is a member of a library of candidate bioactive agents and said ~~cell~~ library ~~is a member of~~ combined with a plurality of cells comprising a said recombinant nucleic acid encoding said R0101 protein in step a).

20. (Currently amended) A The method according to Claim 15, wherein ~~said binding modifies the~~ an activity of said cell cycle protein R0101 ~~protein is modified on binding~~ said candidate bioactive agent.

Appl. No. 09/420,092

PATENT

Amdt. dated February 2, 2004

Reply to Office Action of October 2, 2003

21. (Currently amended) ~~A~~ The method according to Claim 15, wherein step a) further comprises combining PCNA with said ~~cell cycle~~ protein ~~R0101~~ and the candidate bioactive agent.